BRUHAT BANGALORE MAHANAGARA PALIKE

YELAHANKA ZONE

Name of the work: **Modified Estimate for Improvements to Roads, Construction of Culverts and Asphalting to Vinayaka Layout Main Roads in Ward No. 11 (Kuvempunagara), Vidyaranyapura Sub Division.**

							Estimate Cost:		1000000.00
Sl. No	Description	Unit	No.	L	B	D	Qty	Rate	Amount
1	KSRRB 300-2. Earth work excavation by manual means in hard soil involving an average horizontal throw upto 2 meters and an average lift upto 0.5m, excavated surface leveled and sides neatly dressed, the disposed earth to be leveled neatly after breaking of clods complete as per specifications complete as per specifications MORTH chapter 3. **Page No. 152 / Item No. 19.2 / PWD SR 2013-14**	Cum							
	Desilting of Drains								
	1st Cross Road		2	90.00	0.45	0.35	28.35		
	2nd Cross Road		2	75.00	0.45	0.35	23.63		
	3rd Cross Road		2	50.00	0.45	0.35	15.75		
	Berm Cutting								
	1st Cross Road		2	90.00	0.90	0.20	32.40		
	2nd Cross Road		2	75.00	0.90	0.20	27.00		
	3rd Cross Road		2	50.00	0.90	0.20	18.00		
	For Culvert		1	5.50	2.00	1.20	13.20		
							158.33	90.72	**14363.00**
	Basic Rate	84.00							
	Area Weightage @8%	6.72							
	Total	**90.72**							
2	Removing B.S. Slab Drain and stacking **(P. 28 / I. 5.32 PWD SR - 2013-14)**	Sqm							
			2	45.00		1.35	121.50		
			2	35.00		1.35	94.50		
			2	30.00		1.35	81.00		
							297.00	50.11	**14883.00**
	Basic Rate	46.40							
	Area Weightage @8%	3.71							
	Total	**50.11**							
3	Refixing stone slabs of drains and pointing in CM (1:3) **(P. 28 / I. 5.33 PWD SR - 2013-14)**	Sqm							
			Vide Item No.2				**297.00**	70.04	**20801.00**
	Basic Rate	64.85							
	Area Weightage @ 8%	5.19							
	Total	**70.04**							

Sl. No	Description	Unit	No.	L	B	D	Qty	Rate	Amount
4	KSRB 4-1.3 : Providing and laying in position **plain cement concrete of mix M7.5 with OPC cement @ 180 Kgs** using **40mm** and down size graded granite metal, corse aggregates @ 0.85 cum and fine aggregtes @ 0.58cum machine mixed, concrete laid in layers not exceeding 15 cms thick, well compacted, **in foundation and plinth**, including cost of all materials, labour, HOM of machinery, curing complete as per specifications. Specification No. KBS 4.1, 4.2 **Page No. 12 / Item No. 4.3 PWD SR - 2013-14**	Cum							
	Bottom Concrete		1	5.50	2.00	0.15	1.65		
							1.65	4211.38	**6949.00**
	Basic Rate	3973.00							
	Area Weightage @ 6%	238.38							
	Total	**4211.38**							
5	KSRB 5.4-3: Providing and constructing granite / trap / basalt size stone masonry in **superstructure with cement mortar 1:6**, edges of stones chistle dressed in courses not less than 15 cms high, bond stones at two m. apart in each course including cost of materials, labour, curing complete as per specifications.KBS 5-1.13 **Page No. 26 / Item No. 5.12/ PWD SR 2013-14**	Cum							
			2	5.50	0.60	0.90	5.94		
							5.94	4341.76	**25790.00**
	Basic Rate	4096.00							
	Area Weightage @ 6%	245.76							
	Total	**4341.76**							
6	KSRB 15.1.3: Providing ruled pointing to coursed stone masonry with cement mortar 1:3, 20 mm deep, after raking joints to depth of 20mm nicely lining, including cost of materials, labour, curing complete as per specifications. **Page No. 122 / Item No. 15.3 / PWD SR 2013-14**	Sqm							
			2	5.50		0.90	9.90		
							9.90	76.32	**756.00**
	Basic Rate	72.00							
	Area Weightage @ 6%	4.32							
	Total	**76.32**							
7	KSRB 4-1.6 : Providing and laying in position plain cement concrete of **mix M15 with cement @ 240 kgs with 20mm** and down size graded granite metal coarse aggregates @ 0.878 cum and fine aggregates @ 0.459 cum, machine mixed, concrete laid in layers not exceeding 15cms, thick, well compacted, in foundation, plinth and cills, including cost of all materials, labour, HOM of machinery, curing complete as per specifications, specification. No. KBS 4.1,4.2. **No. 12 / Item No. 4.6 / PWD SR 2013-14**	Cum							

Sl. No	Description	Unit	No.	L	B	D	Qty	Rate	Amount
			1	5.50	1.80	0.10	0.99		
	Ramp		2	5.50	1.00	0.15	1.65		
							2.64	4690.50	**12383.00**
	Basic Rate	4425.00							
	Area Weightage @ 6%	265.50							
	Total	**4690.50**							
8	KSRB 4-6.4: Providing and removing centering, shuttering, strutting, propping etc., and removal of form work for **vertical surface** such as **walls at any thickness**, including attached pilasters, buttresses, plinth and string courses cost of all materials, labour complete as per specifications. Specification No. KBS 4.6.2 **Page No.17 / Item No. 4.31 PWD SR - 2013-14**	Sqm							
	Culvert		1	5.50	0.60		3.30		
			2	5.50		0.25	2.75		
			2	1.80		0.25	0.90		
							6.95	271.08	**1884.00**
	Basic Rate	251.00							
	Area Weightage @ 8%	20.08							
	Total	**271.08**							
9	KSRB 4.2.2 : Providing and laying in position **reinforced cement concrete of design mix M20 with OPC cement @ 320 Kgs with 20mm** and down size graded granite metal coarse aggregates @ 0.878cum and fine aggregates @ 0.459 cum wuth superplastisier @ 3lts confirming to IS 9103-1999 reaffirmed-2008, machine mixed, concrete laid in layers not exceeding 15 cms thick, vibrated for all works **in foundation plinth and ground floor level for roof slabs, staircase, lintels, retaining walls, return walls, wall** (any thickness) including attached plasters, columns, piers, abutments, pillars, posts, struts, buttresses, string or lacing courses, parapets, coping, bed blocks, anchor blocks, plain window cills, fillets etc., including cost of all materials, labour, HOM of machinery, curing complete as per specifications. Specification No. KBS 4.1, 4.6 **Page No. 13 / Item No. 4.11 PWD SR - 2013-14**	Cum							
			1	5.50	1.80	0.23	2.28		
							2.28	5535.32	**12604.00**
	Basic Rate	5222.00							
	Area Weightage @ 6%	313.32							
	Total	**5535.32**							

Sl. No	Description	Unit	No.	L	B	D	Qty	Rate	Amount
10	KSRB 4.9.2: Providing **TMT steel reinforcement for R.C.C** work including straightening, cutting, bending, hooking, placing in position, lapping and / or welding wherever required, tying with binding wire and anchoring to the adjoining members wherever necessary complete as per design (laps, hooks and wastage shall not be measured and paid) cost pf materials, labour, HOM of machinery complete as per specifications. Specification No. KBS 4.6.3 **Page No. 19 / Item No. 4.46.2 PWD SR 2013-14**	Qntl							
	For Roof, @ 90 Kg / Cum		0.90	2.28			2.05		
							2.05	7312.94	**14986.00**
	Basic Rate	6899.00							
	Area Weightage @ 6%	413.94							
	Total	**7312.94**							
11	KSRRB 500-3: Scarifying existing stone metal layer upto 75mm thick along with their bituminous surface, picking up scarified materials and stacking of old serviceable materials with lead of 100m, sequential spreading of the salvaged aggregates with fresh aggregates on prepared base and consolidating as per water bound macadam specifications including cost of all labour, HOM of machineries complete as per specifications. MORTH chapter 5, **No. 175 / Item No. 21.3 / PWD SR 2013-14**	Sqm							
			1	90.00	4.60		414.00		
			1	75.00	4.60		345.00		
			1	50.00	4.60		230.00		
							989.00	72.79	**71991.00**
	Basic Rate	67.40							
	Area Weightage @ 8%	5.39							
	Total	**72.79**							
12	Providing, laying, spreading and compacting graded stone aggregate to **wet mix macadam** specification including premixing the Material with water at OMC in mechanical mix plant carriage of mixed Material by tipper to site, laying in uniform layers with paver in sub-base / base course on well prepared surface and compacting with vibratory roller to achieve the desired density complete as per specifications **(P. 170 / I. 20.18) PWD SR - 2013-14.**	Cum							
	UGD and Water Cutting Portion								
	1st Cross Road		1	90.00	1.50	0.20	27.00		
	2nd Cross Road		1	75.00	1.50	0.20	22.50		
	3rd Cross Road		1	50.00	1.50	0.20	15.00		
	Road Surface								
	1st Cross Road		1	90.00	5.00	0.15	67.50		
	2nd Cross Road		1	75.00	5.00	0.15	56.25		
	3rd Cross Road		1	50.00	5.00	0.15	37.50		
							225.75	1121.04	**253075.00**

Sl. No	Description	Unit	No.	L	B	D	Qty	Rate	Amount
	Basic Rate	1038.00							
	Area Weightage @ 8%	83.04							
	Total	**1121.04**							
13	KSRRB 500-1.1 : Cleaning the existing WBM road surface including removing of binding materials and other foreign matter with wire bushes and small picks, sweeping with brooms or soft brushes and finally dusting with old gunny bags and / or compressed air to receive bituminous treatment including cost of all materials, labour, HOM of machineries, curing complete as per specifications. Specification No. 500-1.3 **(P.175 / I.21.1) PWDSR 2013-14**	Sqm							
	1st Cross Road		1	90.00	5.00		450.00		
	2nd Cross Road		1	75.00	5.00		375.00		
	3rd Cross Road		1	50.00	5.00		250.00		
							1075.00	10.53	**11320.00**
	Basic Rate	9.75							
	Area Weightage @ 8%	0.78							
	Total	**10.53**							
14	KSRRB 500-5: providing and applying primer coat from 12.2 to 14.6kg per 10 sqm for surfaces of high porosity over prepared surface of granular base with cut back M.C.-70 or any other bitumen mixed with diesel at 13 kg per 10 sqm heated in bitumen boiler fitted with spray set (excluding cleaning of road surface) including cost of all materials, labour, HOM of machineries complete as per specifications. MORTH chapter 5, **No. 175 / Item No. 21.5 / PWD SR 2013-14**	Sqm							
			Qty Vide Item No. 13				1075.00		
							1075.00	142.07	**152730.00**
	Basic Rate	131.55							
	Area Weightage @ 8%	10.52							
	Total	**142.07**							
15	KSRRB M500-18: Providing and laying **semi dense bituminous concrete 25mm thick** with 100-120 TPH batch type HMP producing an average output of 75 tonnes per hour using crushed aggregates of specified grading, premixed with bituminous binder at 4.5 to 5% of mix and filler, transporting the hot mix to work site, laying with a hydrostatic paver finisher with sensor control to the required grade, level and alignment, rolling with smooth wheeled, vibratory and tandem roller to achieve the desired compaction as per MORTH specifications clause No. 500.8 complete in all respects as per specificationsWith 60/70 grade bitumen using 40-60 HMP, **No. 178 / Item No. 21.20.4 / PWD SR 2013-14.**	Cum							
	1st Cross Road		1	90.00	5.00	0.025	11.25		
	2nd Cross Road		1	75.00	5.00	0.025	9.38		
	3rd Cross Road		1	50.00	5.00	0.025	6.25		
							26.88	9981.36	**268249.00**
	Basic Rate	9242.00							
	Area Weightage @ 8%	739.36							

Sl. No	Description	Unit	No.	L	B	D	Qty	Rate	Amount
	Total	**9981.36**							
16	Lead for Disposal of Debris shall be payable at carriage rates by Mechanical means inlcuding loading and unloading. From 0.00 to 2.00 Km (Page No.123)	Cum	Vide Item No. 1				**134.58**	72.71	**9784.00**
	Average weight of earth 1.28 tonne / kg for 2X1.28X2.00=5.12	5.12							
	Add loading and unloading Vide item no.17.1 P.no.141	62.20							
		67.32							
	Area Weightage @ 8%	5.39							
	Total	**72.71**							
17	Sub Total								**892548.00**
18	KRIDL Charges @ 11%								**98180.00**
19	QC Charges @ 1%								**8925.00**
20	Miscellaneous and other Charges	**L/S**							**347.00**
								Total	**1000000.00**

(Rs. Ten Lakhs Only)

CERTIFICATE:

1 The work spot has been inspected and the work is found necessary.
2 This estimate is prepared as per P.W.D S.R of 2013-14.
3 This work included under 2012-13 POW Grant.
4 The provisions were made in this estimate are necessary and adequate.
5 This works come under B.B.M.P. limits.

Assistant Engineer

Assistant Executive Engineer
Bruhat Bangalore Mahanagara Palike
Vidyaranyapura Sub Division

Executive Engineer
Bruhat Bangalore Mahanagara Palike
Byatarayanapura Division

Technical Sanction for Rs. 10.00 lakhs
Ten lakhs only
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EE (BTP.Div.)